

Please type a plus sign (+) inside the box



PTO/SB/08A (08-00)

Approved for use through 10/31/2002. OMB 0651-0031

U.S. Patent and Trademark Office: U.S. DEPARTMENT OF COMMERCE

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

Substitute for form 1449A/PTO

# INFORMATION DISCLOSURE STATEMENT BY APPLICANT

(use as many sheets as necessary)

Sheet 1 of 14

## Complete if Known

Application Number	671504239
Filing Date	
First Named Inventor	
Group Art Unit	2625
Examiner Name	Patel
Attorney Docket Number	

## U.S. PATENT DOCUMENTS

Examiner Initials *	Cite No. <sup>1</sup>	U.S. Patent Document		Name of Patentee or Applicant of Cited Document	Date of Publication of Cited Document MM-DD-YYYY	Class	Subclass
		Number	Kind Code <sup>2</sup> (if known)				
JICP	1	3493674		Houghton.	Feb., 1970		
	2	3576369		Wick et al.	Apr., 1971		
	3	3585290		Sanford.	Jun., 1971		
	4	3655162		Yamamoto et al.	Apr., 1972		
	5	3703628		Philipson, Jr.	Nov., 1972		
	6	3809806		Walker et al.	May., 1974		
	7	3838444		Loughlin et al.	Sep., 1974		
	8	3914877		Hines.	Oct., 1975		
	9	3922074		Ikegami et al.	Nov., 1975		
	10	3971917		Maddox et al.	Jul., 1976		
	11	3977785		Harris	Aug., 1976		
	12	3982064		Barnaby.	Sep., 1976		
	13	4025851		Haselwood et al.	May., 1977		
	14	4184700		Greenaway	Jan., 1980		
	15	4225967		Miwa et al.	Sep., 1980		
	16	4231113		Blasbalg.	Oct., 1980		
	17	4252995		Schmidt et al.	Feb., 1981		
	18	4262329		Bright et al.	Apr., 1981		
	19	4389671		Posner et al.	Jun., 1983		
	20	4416001		Ackerman	Nov., 1983		
	21	4423415		Goldman.	Dec., 1983		
	22	4476468		Goldman.	Oct., 1984		
	23	4523508		Ruell.	Jun., 1985		
	24	4553261		Froessl.	Nov., 1985		
	25	4590366		Rothfjell.	May., 1986		
	26	4595950		Lofberg.	Jun., 1986		
	27	4637051		Clark.	Jan., 1987		
	28	4639779		Greenberg.	Jan., 1987		
	29	4647974		Butler et al.	Mar., 1987		
	30	4654867		Labadz et al.	Mar., 1987		
	31	4660221		Dlugos.	Apr., 1987		
	32	4663518		Borror et al.	May., 1987		
	33	4665431		Cooper.	May., 1987		
	34	4677435		Cause D'Agraves et al.	Jun., 1987		
	35	4682794		Margolin.	Jul., 1987		

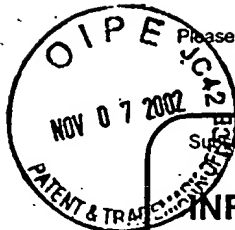
RECEIVED  
NOV 08 2002  
Technology Center 2500

Examiner Signature	J. Patel	Date Considered	11/4/03
--------------------	----------	-----------------	---------

\* EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

<sup>1</sup> Unique citation designation number. <sup>2</sup> See attached Kinds of U.S. Patent Documents. <sup>3</sup> Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). <sup>4</sup> For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. <sup>5</sup> Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST. 16 if possible. <sup>6</sup> Applicant is to place a check mark here if English language Translation is attached.

Burden Hour Statement: This form is estimated to take 2.0 hours to complete. Time will vary depending upon the needs of the individual case. Any comments on the amount of time you are required to complete this form should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, Washington, DC 20231. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Assistant Commissioner for Patents, Washington, DC 20231.



Please type a plus sign (+) inside the



PTO/SB/08A (08-00)

Approved for use through 10/31/2002. OMB 0651-0031

U.S. Patent and Trademark Office: U.S. DEPARTMENT OF COMMERCE

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

Substitute for form 1449A/PTO

**INFORMATION DISCLOSURE  
STATEMENT BY APPLICANT**

(use as many sheets as necessary)

Sheet 2 of 14

**Complete if Known**

Application Number	2002 040 09152 4,239
Filing Date	
First Named Inventor	
Group Art Unit	2625
Examiner Name	Patel
Attorney Docket Number	

**U.S. PATENT DOCUMENTS**

Examiner Initials *	Cite No. <sup>1</sup>	U.S. Patent Document		Name of Patentee or Applicant of Cited Document	Date of Publication of Cited Document MM-DD-YYYY	Class	Subclass
		Number	Kind Code <sup>2</sup> (if known)				
J/K	36	4703476		Howard.	Oct., 1987		
	37	4712103		Gotanda.	Dec., 1987		
	38	4718106		Weinblatt.	Jan., 1988		
	39	4723149		Harada	Feb., 1988		
	40	4765656		Becker et al.	Aug., 1988		
	41	4775901		Nakano.	Oct., 1988		
	42	4776013		Kafri et al.	Oct., 1988		
	43	4805020		Greenberg.	Feb., 1989		
	44	4811357		Betts et al.	Mar., 1989		
	45	4811408		Goldman.	Mar., 1989		
	46	4820912		Samyn.	Apr., 1989		
	47	4835517		van der Gracht et al.	May., 1989		
	48	4864618		Wright et al.	Sep., 1989		
	49	4866771		Bain.	Sep., 1989		
	50	4874936		Chandler et al.	Oct., 1989		
	51	4876617		Best et al.	Oct., 1989		
	52	4884139		Pommier.	Nov., 1989		
	53	4885632		Mabey et al.	Dec., 1989		
	54	4903301		Kondo et al.	Feb., 1990		
	55	4918484		Ujiie et al.	Apr., 1990		
	56	4920503		Cook.	Apr., 1990		
	57	4921278		Shiang et al.	May., 1990		
	58	4939515		Adelson.	Jul., 1990		
	59	4941150		Iwasaki.	Jul., 1990		
	60	4943973		Werner.	Jul., 1990		
	61	4943976		Ishigaki.	Jul., 1990		
	62	4963998		Maufe.	Oct., 1990		
	63	4965827		McDonald.	Oct., 1990		
	64	4967273		Greenberg.	Oct., 1990		
	65	4972471		Gross et al.	Nov., 1990		
	66	4972475		Sant'Anselmo	Nov., 1990		
	67	4979210		Nagata et al.	Dec., 1990		
	68	4996530		Hilton.	Feb., 1991		
	69	5003590		Lechner et al.	Mar., 1991		
	70	5010405		Schreiber et al.	Apr., 1991		

**RECEIVED**

NOV 08 2002

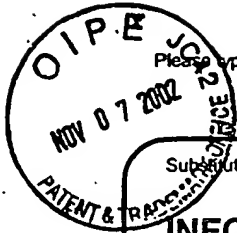
**Technology Center 2000**Examiner  
SignatureDate  
Considered

11/4/03

\*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

<sup>1</sup> Unique citation designation number. <sup>2</sup> See attached Kinds of U.S. Patent Documents. <sup>3</sup> Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). <sup>4</sup> For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. <sup>5</sup> Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST. 16 if possible. <sup>6</sup> Applicant is to place a check mark here if English language Translation is attached.

Burden Hour Statement: This form is estimated to take 2.0 hours to complete. Time will vary depending upon the needs of the individual case. Any comments on the amount of time you are required to complete this form should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, Washington, DC 20231. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Assistant Commissioner for Patents, Washington, DC 20231.



Please type a plus sign (+) inside the box ☐

PTO/SB/08A (08-00)  
Approved for use through 10/31/2002. OMB 0651-0031  
U.S. Patent and Trademark Office: U.S. DEPARTMENT OF COMMERCE

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

Substitute for form 1449A/PTO		<b>Complete if Known</b>	
<b>INFORMATION DISCLOSURE STATEMENT BY APPLICANT</b>  (use as many sheets as necessary)		Application Number	09/504,239
		Filing Date	
		First Named Inventor	
		Group Art Unit	2625
		Examiner Name	Patel
Sheet 3 of 14	Attorney Docket Number		

RECEIVED

NOV 08 2002

U.S. PATENT DOCUMENTS							
Examiner Initials *	Cite No. <sup>1</sup>	U.S. Patent Document		Name of Patentee or Applicant of Cited Document	Date of Publication of Cited Document MM-DD-YYYY	Class	Subclass
		Number	Kind Code <sup>2</sup> (if known)				
JLW	71	5034982		Heninger et al.	Jul., 1991		
	72	5036513		Greenblatt.	Jul., 1991		
	73	5063446		Gibson.	Nov., 1991		
	74	5073899		Collier et al.	Dec., 1991		
	75	5073925		Nagata et al.	Dec., 1991		
	76	5075773		Pullen et al.	Dec., 1991		
	77	5077608		Dubner.	Dec., 1991		
	78	5077795		Rourke et al.	Dec., 1991		
	79	5079648		Maufe.	Jan., 1992		
	80	5091966		Bloomberg et al.	Feb., 1992		
Dums	81	5113437		Best.	May., 1992		
	82	5128525		Stearns et al.	Jul., 1992		
	83	5144660		Rose.	Sep., 1992		
	84	5148498		Resnikoff et al.	Sep., 1992		
	85	5150409		Elsner.	Sep., 1992		
	86	5161210		Druyvesteyn et al.	Nov., 1992		
	87	5166676		Milheiser.	Nov., 1992		
	88	5168146		Bloomberg.	Dec., 1992		
	89	5185736		Tyrrell et al.	Feb., 1993		
	90	5199081		Saito et al.	Mar., 1993		
	91	5212551		Conanan.	May., 1993		
	92	5228056		Schilling.	Jul., 1993		
	93	5243411		Shirochi et al.	Sep., 1993		
	94	5245165		Zhang.	Sep., 1993		
	95	5245329		Gokcebay.	Sep., 1993		
	96	5247364		Banker et al.	Sep., 1993		
	97	5253078		Balkanski et al.	Oct., 1993		
	98	5257119		Funada et al.	Oct., 1993		
	99	5267334		Normille et al.	Nov., 1993		
	100	5293399		Hefti.	Mar., 1994		
	101	5299019		Pack et al.	Mar., 1994		
	102	5305400		Butera.	Apr., 1994		
	103	5319453		Copriviza et al.	Jun., 1994		
	104	5319724		Blonstein et al.	Jun., 1994		
	105	5319735		Preuss et al.	Jun., 1994		

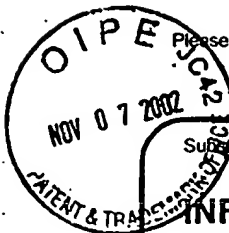
Technology Center 2600

Examiner Signature		Date Considered	1/14/03
--------------------	--	-----------------	---------

\*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

<sup>1</sup> Unique citation designation number. <sup>2</sup> See attached Kinds of U.S. Patent Documents. <sup>3</sup> Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). <sup>4</sup> For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. <sup>5</sup> Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST. 16 if possible. <sup>6</sup> Applicant is to place a check mark here if English language Translation is attached.

Burden Hour Statement: This form is estimated to take 2.0 hours to complete. Time will vary depending upon the needs of the individual case. Any comments on the amount of time you are required to complete this form should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, Washington, DC 20231. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Assistant Commissioner for Patents, Washington, DC 20231.



Please type a plus sign (+) inside



PTO/SB/08A (08-00)

Approved for use through 10/31/2002. OMB 0651-0031  
U.S. Patent and Trademark Office: U.S. DEPARTMENT OF COMMERCE

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

Substitute for form 1449A/PTO

# INFORMATION DISCLOSURE STATEMENT BY APPLICANT

(use as many sheets as necessary)

Sheet 4 of 14

Complete if Known

Application Number	09/504,239
Filing Date	
First Named Inventor	
Group Art Unit	2625
Examiner Name	Patel
Attorney Docket Number	

RECEIVED

NOV 08 2002

Technology Center 2600

## U.S. PATENT DOCUMENTS

Examiner Initials *	Cite No. <sup>1</sup>	U.S. Patent Document		Name of Patentee or Applicant of Cited Document	Date of Publication of Cited Document MM-DD-YYYY	Class	Subclass
		Number	Kind Code <sup>2</sup> (if known)				
JLP	106	5325167		Melen.	Jun., 1994		
	107	5327237		Gerdes et al.	Jul., 1994		
	108	5337362		Gormish et al.	Aug., 1994		
	109	5349655		Mann.	Sep., 1994		
	110	5351302		Leighton et al.	Sep., 1994		
	111	5371792		Asai et al.	Dec., 1994		
	112	5387941		Montgomery et al.	Feb., 1995		
	113	5394274		Kahn.	Feb., 1995		
	114	5396559		McGrew.	Mar., 1995		
	115	5398283		Virga.	Mar., 1995		
	116	5404160		Schober et al.	Apr., 1995		
	117	5404377		Moses.	Apr., 1995		
	118	5408542		Callahan.	Apr., 1995		
	119	5418853		Kanota et al.	May., 1995		
✓	120	5422963		Chen et al.	Jun., 1995		
	121	5422995		Aoki et al.	Jun., 1995		
	122	5425100		Thomas et al.	Jun., 1995		
	123	5428606		Moskowitz.	Jun., 1995		
	124	5432542		Thibadeau et al.	Jul., 1995		
	125	5432870		Schwartz.	Jul., 1995		
	126	5446488		Estie Vogel	Aug., 1995		
	127	5450122		Keene.	Sep., 1995		
	128	5450490		Jensen et al.	Sep., 1995		
	129	5461426		Limberg et al.	Oct., 1995		
	130	5473631		Moses.	Dec., 1995		
	131	5479168		Johnson et al.	Dec., 1995		
	132	5481294		Thomas et al.	Jan., 1996		
	133	5488664		Shamir.	Jan., 1996		
	134	5499294		Friedman.	Mar., 1996		
✓	135	5515081		Vasilik.	May., 1996		
	136	5524933		Kunt et al.	Jun., 1996		
	137	5530751		Morris	Jun., 1996		
	138	5532920		Hartrick et al.	Jul., 1996		
	139	5537223		Curry.	Jul., 1996		
	140	5539471		Myhrvold et al.	Jul., 1996		

Examiner Signature	<i>J. L. Patel</i>	Date Considered	11/4/03
-----------------------	--------------------	--------------------	---------

\* EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

<sup>1</sup> Unique citation designation number. <sup>2</sup> See attached Kinds of U.S. Patent Documents. <sup>3</sup> Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). <sup>4</sup> For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. <sup>5</sup> Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST. 16 if possible. <sup>6</sup> Applicant is to place a check mark here if English language Translation is attached.

Burden Hour Statement: This form is estimated to take 2.0 hours to complete. Time will vary depending upon the needs of the individual case. Any comments on the amount of time you are required to complete this form should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, Washington, DC 20231. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Assistant Commissioner for Patents, Washington, DC 20231.



Please type a plus sign (+) inside



PTO/SB/08A (08-00)

Approved for use through 10/31/2002. OMB 0651-0031

U.S. Patent and Trademark Office: U.S. DEPARTMENT OF COMMERCE

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

Institute for form 1449A/PTO

**INFORMATION DISCLOSURE  
STATEMENT BY APPLICANT**

(use as many sheets as necessary)

Sheet 5 of 14

**Complete if Known**

Application Number

Filing Date

First Named Inventor

Group Art Unit

Examiner Name

Attorney Docket Number

091504,239

2625

Patel

**RECEIVED**

NOV 08 2002

Technology Center 2600

**U.S. PATENT DOCUMENTS**

Examiner Initials *	Cite No. <sup>1</sup>	U.S. Patent Document		Name of Patentee or Applicant of Cited Document	Date of Publication of Cited Document MM-DD-YYYY	Class	Subclass
		Number	Kind Code <sup>2</sup> (if known)				
JCP	141	5539735		Moskowitz.	Jul., 1996		
	142	5541662		Adams et al.	Jul., 1996		
	143	5544255		Smithies et al.	Aug., 1996		
	144	5548646		Aziz et al.	Aug., 1996		
	145	5557333		Jungo et al.	Sep., 1996		
	146	5559559		Jungo et al.	Sep., 1996		
	147	5568179		Diehl et al.	Oct., 1996		
	148	5568570		Rabbani.	Oct., 1996		
	149	5572010		Petrie.	Nov., 1996		
	150	5572247		Montgomery.	Nov., 1996		
	151	5576532		Hecht.	Nov., 1996		
	152	5579124		Aijala et al.	Nov., 1996		
	153	5582103		Tanaka et al.	Dec., 1996		
	154	5587743		Montgomery.	Dec., 1996		
	155	5590197		Chen et al.	Dec., 1996		
	156	5602920		Bestler et al.	Feb., 1997		
✓	157	5606609		Houser et al.	Feb., 1997		
	158	5611575		Petrie.	Mar., 1997		
	159	5613012		Hoffman et al.	Mar., 1997		
	160	5614940		Cobbley et al.	Mar., 1997		
	161	5617148		Montgomery.	Apr., 1997		
	162	5629770		Brassil.	May., 1997		
	163	5629980		Stefik et al.	May., 1997		
	164	5638446		Rubin.	Jun., 1997		
	165	5661574		Kawana.	Aug., 1997		
	166	5666487		Goodman et al.	Sep., 1997		

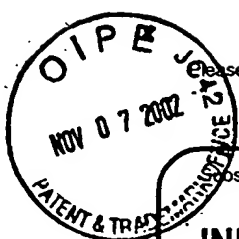
Examiner  
SignatureDate  
Considered

1/14/03

\*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

<sup>1</sup> Unique citation designation number. <sup>2</sup> See attached Kinds of U.S. Patent Documents. <sup>3</sup> Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). <sup>4</sup> For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. <sup>5</sup> Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST. 16 if possible. <sup>6</sup> Applicant is to place a check mark here if English language Translation is attached.

Burden Hour Statement: This form is estimated to take 2.0 hours to complete. Time will vary depending upon the needs of the individual case. Any comments on the amount of time you are required to complete this form should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, Washington, DC 20231. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Assistant Commissioner for Patents, Washington, DC 20231.



Please type a plus sign (+) inside the



PTO/SB/08A (08-00)

Approved for use through 10/31/2002. OMB 0651-0031

U.S. Patent and Trademark Office: U.S. DEPARTMENT OF COMMERCE

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

Substitute for form 1449A/PTO

**INFORMATION DISCLOSURE  
STATEMENT BY APPLICANT**

(use as many sheets as necessary)

Sheet 6 of 14

**Complete If Known**

Application Number	09/504,239
Filing Date	
First Named Inventor	
Group Art Unit	2625
Examiner Name	Patel
Attorney Docket Number	

**RECEIVED**

NOV 08 2002

Technology Center 2600

**U.S. PATENT DOCUMENTS**

Examiner Initials *	Cite No. <sup>1</sup>	U.S. Patent Document		Name of Patentee or Applicant of Cited Document	Date of Publication of Cited Document MM-DD-YYYY	Class	Subclass
		Number	Kind Code <sup>2</sup> (if known)				

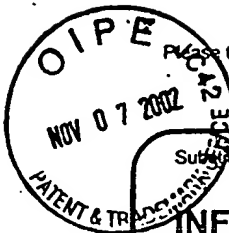
167	20010017709		Murakami et al.	8/30/01			
168	20010024510		Iwamura	9/27/01			
169	20010026629		Oki	10/4/01			
170	20010030759		Hayashi et al.	10/18/01			
171	20010053299		Matsunoshita et al.	12/20/01			
172	2002001095		Kawakami et al.	1/3/02			
173	20020003891		Hoshino	1/10/02			
174	20020018228		Torigoe	2/14/02			
175	20020051237		Ohara	5/2/02			
176	6188787		Ohmae et al.	2/13/01			
177	6243480		Zhao et al.	6/5/01			
178	6301360		Bocionek et al.	10/9/01			
179	6321648		Berson et al.	11/17/01			
180	6321981		Ray et al.	11/27/01			
181	6343204		Yang	1/29/02			
182	6359985		Koch et al.	3/19/02			
183	6024287		Takai et al.	2/15/00			

Examiner  
SignatureDate  
Considered

\*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

<sup>1</sup> Unique citation designation number. <sup>2</sup> See attached Kinds of U.S. Patent Documents. <sup>3</sup> Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). <sup>4</sup> For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. <sup>5</sup> Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST. 16 if possible. <sup>6</sup> Applicant is to place a check mark here if English language Translation is attached.

Burden Hour Statement: This form is estimated to take 2.0 hours to complete. Time will vary depending upon the needs of the individual case. Any comments on the amount of time you are required to complete this form should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, Washington, DC 20231. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Assistant Commissioner for Patents, Washington, DC 20231.



Please type a plus sign (+) inside



PTO/SB/08A (08-00)

Approved for use through 10/31/2002. OMB 0651-0031  
U.S. Patent and Trademark Office: U.S. DEPARTMENT OF COMMERCE

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

Substitute for form 1449A/PTO

## INFORMATION DISCLOSURE STATEMENT BY APPLICANT

(use as many sheets as necessary)

Sheet 7 of 14

Complete If Known

Application Number	69/504,239
Filing Date	
First Named Inventor	
Group Art Unit	2625
Examiner Name	Patel
Attorney Docket Number	

RECEIVED

NOV 08 2002

Technology Center 2600

### FOREIGN PATENT DOCUMENTS

Examiner Initials*	Cite No. <sup>1</sup>	Foreign Patent Document			Name of Patentee or Applicant of Cited Document	Date of Publication of Cited Document MM-DD-YYYY	Int'l Class	Int'l Subclass	T <sub>6</sub>
		Office <sup>2</sup>	Number <sup>4</sup>	Kind Code <sup>5</sup> (if known)					
JEP	1	EP	366381 A2		Best et al.	Oct., 1989			
	2	EP	372 601		Druyvesteyn et al.	Jun., 1990			
	3	EP	411 232		Chevion et al.	Feb., 1991			
	4	EP	418 964 A1		Veldhuis et al.	Mar., 1991			
	5	EP	441 702		Farjaudon et al.	Aug., 1991			
	6	EP	058 482		Barrett et al.	Aug., 1992			
	7	EP	551 016		Kajita et al.	Jul., 1993			
	8	EP	581 317		Powell et al.	Feb., 1994			
	9	EP	605 208		Arimoto et al.	Jul., 1994			
	10	EP	649 074		Daniele	Apr., 1995			
	11	EP	705 025		Rabbani et al.	Apr., 1996			
	12	DE	3806411		Platte	Sep., 1989			
	13	JP	4-248771		Takahashi et al.	Feb., 1992			
	14	JP	5/242217			Sep., 1993			
	15	JP	8-30759		Ricoh	Feb., 1996			
	16	GB	2063018		Stagg	May., 1981			
	17	GB	2067871		Marconi	Jul., 1981			
	18	GB	2196167		Holt et al.	Apr., 1988			
	19	GB	2204984		Jenkins	Nov., 1988			
	20	WO	89/08915		Turner	Sep., 1989			
	21	WO	93/25038		Biguen et al.	Dec., 1993			
	22	WO	95/10835		Tsai	Apr., 1995			
	23	WO	95/14289		Rhoads	May., 1995			
	24	WO	95/20291		Paatelma et al.	Jul., 1995			
	25	WO	96/26494		Sandford et al.	Aug., 1996			
	26	WO	96/27259		Hilton	Sep., 1996			
	27	EP	711061		Aida et al.	May 8, 1996			
	28	EP	1122939		Suzuki et al.	Aug., 8, 2001			
	29	DE	19521969C1		Koch et al.	Feb. 27, 1997			x
	30	WO	01/08405		Hersch et al.	Feb. 1, 2001			
	31								

Examiner  
Signature

*[Signature]*

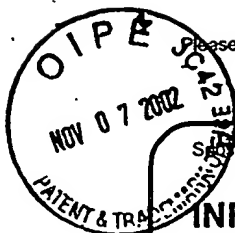
Date  
Considered

11/14/03

\*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

<sup>1</sup> Unique citation designation number. <sup>2</sup> See attached Kinds of U.S. Patent Documents. <sup>3</sup> Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). <sup>4</sup> For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. <sup>5</sup> Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST. 16 if possible. <sup>6</sup> Applicant is to place a check mark here if English language Translation is attached.

Burden Hour Statement: This form is estimated to take 2.0 hours to complete. Time will vary depending upon the needs of the individual case. Any comments on the amount of time you are required to complete this form should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, Washington, DC 20231. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Assistant Commissioner for Patents, Washington, DC 20231.



Please type a plus sign (+) inside the box



PTO/SB/08A (08-00)

Approved for use through 10/31/2002. OMB 0651-0031

U.S. Patent and Trademark Office: U.S. DEPARTMENT OF COMMERCE

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

Substitute for form 1449A/PTO

## INFORMATION DISCLOSURE STATEMENT BY APPLICANT

(use as many sheets as necessary)

Sheet 8 of 14

### Complete If Known

Application Number	69/504,239
Filing Date	
First Named Inventor	Rhoads
Group Art Unit	2625
Examiner Name	Patel
Attorney Docket Number	

RECEIVED

NOV 08 2002

Technology Center 2600

### OTHER PRIOR ART -- NON PATENT LITERATURE DOCUMENTS

Examiner Initials *	Cite No. <sup>1</sup>	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T <sup>2</sup>
My	1	"Access Control and COpyright Protection for Images, WorkPackage 8: Watermarking," Jun. 30, 1995, 46 pages.	
	2	"Access Control and COpyright Protection for Images, WorkPackage 3: Evaluation of Existing Systems," Apr. 19, 1995, 68 pages.	
	3	"Access Control and COpyright Protection for Images, WorkPackage 1: Access Control and Copyright Protection for Images Need Evaluation," Jun., 1995, 21 pages.	
	4	"Access Control and COpyright Protection for Images, Conditional Access and Copyright Protection Based on the Use of Trusted Third Parties," 1995, 43 pages.	
	5	Arachelian, "White Noise Storm," Apr. 11, 1994, Internet reference, 13 pages.	
	6	Arazi, et al., "Intuition, Perception, and Secure Communication," IEEE Transactionson Systems, Man, and Cybernetics, vol. 19, No. 5, Sep./Oct. 1989, pp. 1016-1020.	
	7	Arthur, "Digital Fingerprints Protect Artwork," New Scientist, Nov. 12, 1994, p. 24.	
	8	Aura, "Invisible Communication," Helsinki University of Technology, Digital Systems Laboratory, Nov. 5, 1995, 13 pages.	
	9	Bender et al, "Techniques for Data Hiding," Draft Preprint, Private Correspondence, dated Oct. 30, 1995.	
	10	Bender et al., "Techniques for Data Hiding," Massachusetts Institute of Technology, Media Laboratory, Jan. 1995, 10 pages.	
	11	Boneh, "Collusion-Secure Fingerprinting for Digital Data," Department of Computer Science, Princeton University, 1995, 31 pages.	
	12	Boney et al., "Digital Watermarks for Audio Signals," Proceedings of Multimedia '96, 1996 IEEE, PP. 473-480.	
	13	Bouqueau et al., Equitable Conditional Access and Copyright Protection for Image Based on Trusted Third Parties, Teleservices & Multimedia Communications, 2nd Int. Cost 237 Workshop, Second International Cost 237 Workshop, Nov., 1995; published 1996, pp. 229-243.	
	14	Brassil et al., "Hiding Information in Document Images," Nov., 1995, 7 pages.	

Examiner  
Signature

*[Handwritten Signature]*

Date  
Considered

1/14/03

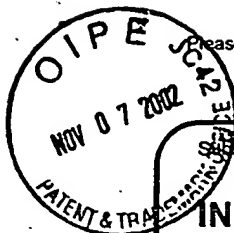
\* EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

<sup>1</sup> Unique citation designation number. <sup>2</sup> See attached Kinds of U.S. Patent Documents. <sup>3</sup> Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). <sup>4</sup> For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. <sup>5</sup> Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST. 16 if possible. <sup>6</sup> Applicant is to place a check mark here if English language Translation is attached.

Burden Hour Statement: This form is estimated to take 2.0 hours to complete. Time will vary depending upon the needs of the individual case. Any comments on the amount of time you are required to complete this form should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, Washington, DC 20231. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Assistant Commissioner for Patents, Washington, DC 20231.

24





Please type a plus sign (+) inside box

PTO/SB/08A (08-00)

Approved for use through 10/31/2002. OMB 0651-0031  
U.S. Patent and Trademark Office: U.S. DEPARTMENT OF COMMERCE

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

Substitute for form 1449A/PTO

# INFORMATION DISCLOSURE STATEMENT BY APPLICANT

(use as many sheets as necessary)

Sheet 9 of 14

## Complete if Known

Application Number 09/504,229  
Filing Date  
First Named Inventor  
Group Art Unit 2625  
Examiner Name Patel  
Attorney Docket Number

RECEIVED

NOV 08 2002

Technology Center 2600

## OTHER PRIOR ART – NON PATENT LITERATURE DOCUMENTS

Examiner Initials *	Cite No. <sup>1</sup>	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T <sup>2</sup>
sh	15	Brown, "S-Tools for Windows, Version 1.00, .COPYRGT. 1994 Andy Brown, What is Steganography," Internet reference, Mar. 6, 1994, 6 pages	
	16	Bruyndonckx et al., Neural Network Post-Processing of Coded Images Using Perceptual Masking, 1994, 3 pages.	
	17	Bruyndonckx et al., "Spatial Method for Copyright Labeling of Digital Images," 1994, 6 pages.	
	18	Burgett et al., "A Novel Method for Copyright Labeling Digitized Image Data," requested by e-mail from author (unavailable/password protected on IGD WWW site); received Sep. 18, 1995, 12 pages.	
	19	Caronni, "Assuring Ownership Rights for Digital Images," Published in the Proceedings of 'Reliable IT Systems,' VIS '95, HH. Bruggemann and W. Gerhardt-Hackl (Ed.), Vieweg Publishing Company, Germany, 1995, Jun. 14, 1994, 10 pages.	
	20	Caruso, "Digital Commerce, 2 plans for watermarks, which can bind proof of authorship to electronic works." New York Times, Aug. 7, 1995, one page.	
	21	Castro et al., "Registration of Translated and Rotated Images Using Finite Fourier Transforms," IEEE Transactions on Pattern Analysis and Machine Intelligence, vol. PAMI-9, No. 5, Sep. 1987, pp. 700-703.	
	22	Choudhury, et al., "Copyright Protection for Electronic Publishing over Computer Networks," IEEE Network Magazine, Jun. 1994, 18 pages.	
	23	Clarke, "Invisible Code Tags Electronic Images," Electronic Engineering Times, Jun. 12, 1995, n. 852, p. 42.	
	24	"Copyright Protection for Digital Images, Digital Fingerprinting from FBI," Highwater FBI brochure, 1995, 4 pages.	
	25	"The Copyright Can of Worms Opened Up By The New Electronic Media," Computergram Internations, pCGN07170006, Jul. 17, 1995 and "The Copyright Can of Worms Opened Up By the New Electronic Media--2," Computergram Internations, pCGN07210008, Jul. 21, 1995, 3 pages total.	
	26	Cox et al., "Secure Spread Spectrum Watermarking for Multimedia," NEC Research Institute Technical Report, Dec. 5, 1995, 33 pages.	
	27	Cox et al., "A Secure, Imperceptible Yet Perceptually Salient, Spread Spectrum Watermark for Multimedia," IEEE, Southcon/96, Conference Record, Pp. 192-197, 1996.	

Examiner Signature

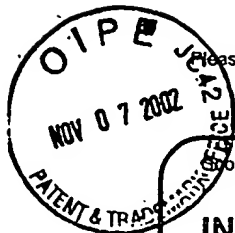
Date Considered

11/4/03

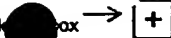
\*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

<sup>1</sup> Unique citation designation number. <sup>2</sup> See attached Kinds of U.S. Patent Documents. <sup>3</sup> Enter Office that Issued the document, by the two-letter code (WIPO Standard ST.3). <sup>4</sup> For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. <sup>5</sup> Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST. 16 if possible. <sup>6</sup> Applicant is to place a check mark here if English language Translation is attached.

Burden Hour Statement: This form is estimated to take 2.0 hours to complete. Time will vary depending upon the needs of the individual case. Any comments on the amount of time you are required to complete this form should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, Washington, DC 20231. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Assistant Commissioner for Patents, Washington, DC 20231.



Please type a plus sign (+) inside



PTO/SB/08A (08-00)

Approved for use through 10/31/2002. OMB 0651-0031  
U.S. Patent and Trademark Office: U.S. DEPARTMENT OF COMMERCE

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

Substitute for form 1449A/PTO

**INFORMATION DISCLOSURE  
STATEMENT BY APPLICANT**

(use as many sheets as necessary)

Sheet 10 of 14

**Complete If Known**

Application Number	09/1584,239
Filing Date	
First Named Inventor	
Group Art Unit	2625
Examiner Name	Patel
Attorney Docket Number	

**RECEIVED**

NOV 08 2002

Technology Center 2600

**OTHER PRIOR ART -- NON PATENT LITERATURE DOCUMENTS**

Examiner Initials *	Cite No. <sup>1</sup>	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T <sup>2</sup>
Jup	28	"Cyphertech Systems: Introduces Digital Encoding Device to Prevent TV Piracy," Hollywood Reporter, Oct. 20, 1993, p. 23.	
	29	Delaigle et al., "Digital Watermarking," Proc. SPIE--Int. Soc. Opt. Eng., vol. 2659, pp. 99-110, 1996.	
	30	Delaigle et al., "A Psychovisual Approach for Digital Picture Watermarking," 1995, 20 pages.	
	31	DICE Digital Watermark System, Q&A, Dec., 1995, 12 pages.	
	32	Digimarc presentation at RSA Conference, approximately Jan. 17, 1996, 4 pages.	
	33	Fimmerstad, "The Virtual Art Museum," Ericsson Connexion, Dec., 1995, pp. 29-31.	
	34	Fitzgerald, "Invisible Digital Copyright ID," Editor & Publisher, Jun. 25, 1994, p. 62.	
	35	"Foiling Card Forgers With Magnetic 'Noise,'" Wall Street Journal, Feb. 8, 1994.	
	36	Frequently Asked Questions About Digimarc Signature Technology, Aug. 1, 1995, HTTP://WWW.DIGIMARC.COM, 9 pages.	
	37	Friedman, "The Trustworthy Digital Camera: Restoring Credibility to the Photographic Image," IEEE Transactions on Consumer Electronics, vol. 39, No. 4, Nov., 1993, pp. 905-910.	
	38	Gabor, et al., "Theory of Communication," J. Inst. Elect. Eng. 93, 1946, pp. 429-441.	
	39	Hartung et al., Digital Watermarking of Raw and Compressed Video, Proc. SPIE 2952, Digital Compression Technologies and Systems for Video Communications, Oct., 1996, pp 205-213.	
	40	Hecht, "Embedded Data Glyph Technology for Hardcopy Digital Documents," SPIE vol. 2171, Feb. 1994, pp. 341-352.	
	41	"Holographic signatures for digital images," The Seybold Report on Desktop Publishing, Aug. 1995, one page.	

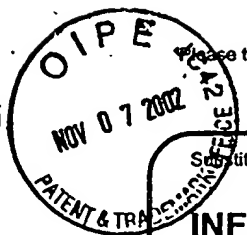
Examiner  
SignatureDate  
Considered

1/14/03

\*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

<sup>1</sup> Unique citation designation number. <sup>2</sup> See attached Kinds of U.S. Patent Documents. <sup>3</sup> Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). <sup>4</sup> For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. <sup>5</sup> Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST. 16 if possible. <sup>6</sup> Applicant is to place a check mark here if English language Translation is attached.

Burden Hour Statement: This form is estimated to take 2.0 hours to complete. Time will vary depending upon the needs of the individual case. Any comments on the amount of time you are required to complete this form should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, Washington, DC 20231. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Assistant Commissioner for Patents, Washington, DC 20231.



Please type a plus sign (+) inside the box



PTO/SB/08A (08-00)

Approved for use through 10/31/2002. OMB 0651-0031  
U.S. Patent and Trademark Office: U.S. DEPARTMENT OF COMMERCE

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

Substitute for form 1449A/PTO

## INFORMATION DISCLOSURE STATEMENT BY APPLICANT

(use as many sheets as necessary)

Sheet 11 of 14

### Complete if Known

Application Number	09/504,239
Filing Date	11/14/93
First Named Inventor	
Group Art Unit	2625
Examiner Name	Patel
Attorney Docket Number	

RECEIVED

NOV 08 2002

Technology Center 2600

### OTHER PRIOR ART - NON PATENT LITERATURE DOCUMENTS

Examiner Initials *	Cite No. <sup>1</sup>	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T <sup>2</sup>
Jhy	42	Humphrey, "Stamping Out Crime," Hollywood Reporter, Jan. 26, 1994, p. S48.	
	43	Jain, "Image Coding Via a Nearest Neighbors Image Model," IEEE Transactions on Communications, vol. COM-23, No. 3, Mar. 1975, pp. 318-331.	
	44	Johhnson, "Steganography," Dec. 10, 1995, 32 pages.	
	45	JPEG Group's JPEG Software (release 4), FTP.CSUA.BEREKELEY.EDU/PUB/CYPHERPUNKS/APPLICATIONS/JSTEG/JPEG.ANNOUNCEMENT.GZ.	
	46	Kassam, Signal Detection in Non-Gaussian Noise, Dowden & Culver, 1988, pp. 1-96.	
	47	Koch et al., "Digital Copyright Labeling: Providing Evidence of Misuse and Tracking Unauthorized Distribution of Copyrighted Materials," Oasis Magazine, Dec. 1995, 3 pages.	
	48	Luc, "Analysis of Spread Spectrum System Parameters for Design of Hidden Transmission," Radioengineering, vol. 4, No. 2, Jun. 1995, pp. 26-29.	
	49	Machado, "Announcing Stego 1.0a2, The First Steganography Tool for the Macintosh," Internet reference, Nov. 28, 1993, 3 pages.	
	50	Macq, "Cryptology for Digital TV Broadcasting," Proceedings of the IEEE, vol. 83, No. 6, Jun. 1995, pp. 944-957.	
	51	Matthews, "When Seeing is Not Believing," New Scientist, Oct. 16, 1993, pp. 13-15.	
	52	Matsui et al., "Video-Steganography: How to Secretly Embed a Signature in a Picture," IMA Intellectual Property Project Proceedings, Jan. 1994, vol. 1, Issue 1, pp. 187-205.	
	53	Mintzer et al., "Toward on-line, Worldwide Access to Vatican Library Materials," IBM J. Res. Develop. vol. 40 No. 2, Mar., 1996, pp. 139-162.	
	54	Moller, et al., "Rechnergestutzte Steganographie: Wie sie funktioniert und warum folglich jede Reglementierung von Verschlüsselung unsinnig ist," DuD, Datenschutz und Datensicherung, Jun. 18, 1994 318-326.	
✓	55	"NAB-Cyphertech Starts Anti-Piracy Broadcast Tests," Newsbytes, NEW03230023, Mar. 23, 1994.	

Examiner Signature

*[Handwritten Signature]*

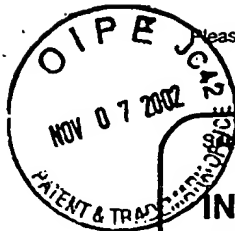
Date Considered

11/14/93

\* EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

<sup>1</sup> Unique citation designation number. <sup>2</sup> See attached Kinds of U.S. Patent Documents. <sup>3</sup> Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). <sup>4</sup> For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. <sup>5</sup> Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST. 18 if possible. <sup>6</sup> Applicant is to place a check mark here if English language Translation is attached.

Burden Hour Statement: This form is estimated to take 2.0 hours to complete. Time will vary depending upon the needs of the individual case. Any comments on the amount of time you are required to complete this form should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, Washington, DC 20231. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Assistant Commissioner for Patents, Washington, DC 20231.



Please type a plus sign (+) inside

+

PTO/SB/08A (08-00)

Approved for use through 10/31/2002. OMB 0651-0031

U.S. Patent and Trademark Office: U.S. DEPARTMENT OF COMMERCE

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

Substitute for form 1449A/PTO

## INFORMATION DISCLOSURE STATEMENT BY APPLICANT

(use as many sheets as necessary)

Sheet 12 of 14

Complete If Known

Application Number

Filing Date

First Named Inventor

Group Art Unit

Examiner Name

Attorney Docket Number

09/509/239

2625

Patel

RECEIVED

NOV 08 2002

Technology Center 2600

### OTHER PRIOR ART -- NON PATENT LITERATURE DOCUMENTS

Examiner Initials *	Cite No. <sup>1</sup>	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T <sup>2</sup>
Olup	56	Nakamura et al., "A Unified Coding Method of Image and Text Data Using Discrete Orthogonal Transform," Systems and Computers in Japan, vol. 21, No. 3, 1990, pp. 87-92.	
	57	Nakamura et al., "A Unified Coding Method of Dithered Image and Text Data Using Micropatterns," Electronics and Communications in Japan, Part 1, vol. 72, No. 4, 1989, pp. 50-56.	
	58	New Product Information, "FBI at AppleExpo" (Olympia, London), Nov., 1995, 2 pages.	
	59	Ohnishi et al., Embedding a Seal into a Picture Under Orthogonal Wavelet Transform, Proceedings of Multimedia '96, 1996, IEEE, pp. 514-521.	
	60	ORuanaidh et al., "Watermarking Digital Images for Copyright Protection," <a href="http://www.kalman.mee.tcd.ie/people/jjr/eva.sub.-pap.html">http://www.kalman.mee.tcd.ie/people/jjr/eva.sub.-pap.html</a> , Feb. 2, 1996, 8 pages. (Also published Aug., 1996, IEEE Proceedings-Vision, Image and Signal Processing, vol. 143, no. 4, pp. 250-256.).	
	61	Pennebaker et al., JPEG Still Image Data Compression Standard, Chapter 3, "Aspects of the Human Visual System," pp. 23-27, 1993, Van Nostrand Reinhold, New York.	
	62	Pickholtz et al., "Theory of Spread-Spectrum Communications--A Tutorial," Transactions on Communications, vol. COM-30, No. 5, May, 1982, pp. 855-884.	
	63	Pitas et al., "Applying Signatures on Digital Images," IEEE Workshop on Nonlinear Image and Signal Processing, Neos Marmaras, Greece, pp. 460-463, Jun., 1995.	
	64	Port, "Halting Highway Robbery on the Internet," Business Week, Oct. 17, 1994, p. 212.	x
	65	Roberts, "Picture Coding Using Pseudorandom Noise," IRE Trans. on Information Theory, vol. 8, No. 2, Feb., 1962, pp. 145-154.	
	66	Sapwater et al., "Electronic Copyright Protection," Photo>Electronic Imaging, vol. 37, No. 6, 1994, pp. 16-21. Schneier, "Digital Signatures, Cryptographic Algorithms Can Create Nonforgeable Signatures for Electronic Documents, Making Them Valid Legal Instruments" BYTE, Nov. 1993, pp. 309-312.	
	67	shaggy@phantom.com, "Hide and Seek v. 4.0," Internet reference, Apr. 10, 1994, 3 pages.	
	68	Short, "Steps Toward Unmasking Secure Communications," International Journal of Bifurcation and Chaos, vol. 4, No. 4, 1994, pp. 959-977.	

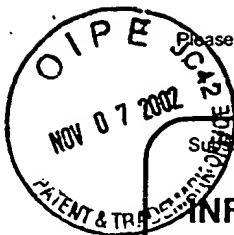
Examiner Signature

Date Considered

\*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

<sup>1</sup> Unique citation designation number. <sup>2</sup> See attached Kinds of U.S. Patent Documents. <sup>3</sup> Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). <sup>4</sup> For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. <sup>5</sup> Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST. 16 if possible. <sup>6</sup> Applicant is to place a check mark here if English language Translation is attached.

Burden Hour Statement: This form is estimated to take 2.0 hours to complete. Time will vary depending upon the needs of the individual case. Any comments on the amount of time you are required to complete this form should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, Washington, DC 20231. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Assistant Commissioner for Patents, Washington, DC 20231.



Please type a plus sign (+) inside

+

PTO/SB/A08A (08-00)

Approved for use through 10/31/2002. OMB 0651-0031

U.S. Patent and Trademark Office: U.S. DEPARTMENT OF COMMERCE

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

Substitute for form 1449A/PTO

**INFORMATION DISCLOSURE  
STATEMENT BY APPLICANT**

(use as many sheets as necessary)

Sheet 13 of 14

**Complete if Known**

Application Number	09/504,239
Filing Date	11/08/02
First Named Inventor	Patel
Group Art Unit	2625
Examiner Name	Patel
Attorney Docket Number	

NOV 08 2002

**RECEIVED****OTHER PRIOR ART – NON PATENT LITERATURE DOCUMENTS**

Technology Center 2600

Examiner Initials *	Cite No. <sup>1</sup>	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T <sup>2</sup>
Shp	69	Simmons, "Subliminal Channels; Past and Present," ETT, vol. 5, No. 4, Jul.-Aug. 1994, pp. 45-59.	
	70	Sheng et al., "Experiments on Pattern Recognition Using Invariant Fourier-Mellin Descriptors," Journal of Optical Society of America, vol. 3, No. 6, Jun., 1986, pp. 771-776.	
	71	Sklar, "A Structured Overview of Digital Communications—a Tutorial Review—Part I," IEEE Communications Magazine, Aug., 1983, pp. 1-17.	
	72	Sklar, "A Structured Overview of Digital Communications—a Tutorial Review—Part II," IEEE Communications Magazine, Oct., 1983, pp. 6-21.	
	73	"Steganography," Intellectual Property and the National Information Infrastructure The Report of the Working Group on Intellectual Property Rights, Sep. 1995, pp. 212-213.	
	74	Tanaka et al., "Embedding Secret Information Into a Dithered Multi-Level Image," Proc. IEEE Military Comm. Conf., Sep. 1990, pp. 216-220.	
	75	Tanaka, "Embedding the Attribute Information Into a Dithered Image," Systems and Computers in Japan, vol. 21, No. 7, 1990, pp. 43-50.	
	76	Kirkel et al., "A Two-Dimensional Digital Watermark," 1995, 6 pages.	
	77	Toga et al., "Registration Revisited," Journal of Neuroscience Methods, 48 (1993), pp. 1-13.	
	78	van Schyndel et al., "Towards a Robust Digital Watermark," ACCV '95, vol. 2, Dec., 1995, pp. 504-508.	
	79	Wagner, "Fingerprinting," 1983 IEEE, pp. 18-22.	
	80	Walton, "Image Authentication for a Slippery New Age," Dr. Dobb's Journal, Apr. 1995, pp. 18-26, 82-87.	
	81	"Watermarking & Digital Signature: Protect Your Work!" Published on Internet 1996, <a href="http://ltswww.epfl.ch/about.jordan/watermarking.html">http://ltswww.epfl.ch/about.jordan/watermarking.html</a> .	
	82	Wise, "The History of Copyright, Photographers' Rights Span Three Centuries," Photo>Electronic Imaging, vol. 37, No. 6, 1994.	X

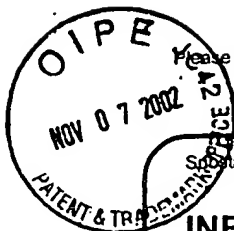
Examiner  
SignatureDate  
Considered

1/14/03

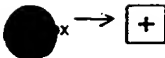
\*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

<sup>1</sup> Unique citation designation number. <sup>2</sup> See attached Kinds of U.S. Patent Documents. <sup>3</sup> Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). <sup>4</sup> For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. <sup>5</sup> Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST. 16 if possible. <sup>6</sup> Applicant is to place a check mark here if English language Translation is attached.

Burden Hour Statement: This form is estimated to take 2.0 hours to complete. Time will vary depending upon the needs of the individual case. Any comments on the amount of time you are required to complete this form should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, Washington, DC 20231. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Assistant Commissioner for Patents, Washington, DC 20231.



Please type a plus sign (+) inside



PTO/SB/08A (08-00)

Approved for use through 10/31/2002. OMB 0651-0031

U.S. Patent and Trademark Office: U.S. DEPARTMENT OF COMMERCE

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

Substitute for form 1449A/PTO

## INFORMATION DISCLOSURE STATEMENT BY APPLICANT

(use as many sheets as necessary)

Sheet 14 of 14

Complete if Known

Application Number	09/504,123
Filing Date	
First Named Inventor	
Group Art Unit	262.5
Examiner Name	Patel
Attorney Docket Number	

RECEIVED

NOV 08 2002

Technology Center 2600

### OTHER PRIOR ART – NON PATENT LITERATURE DOCUMENTS

Examiner Initials *	Cite No. <sup>1</sup>	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T <sup>2</sup>
OKP	83	van Schyndel et al., "A Digital Watermark," IEEE International Conference on Image Processing, Nov. 13-16, 1994, pp. 86-90.	
JLP	84	Zhao et al., "Embedding Robust Labels Into Images for Copyright Protection," Proc. of the International Congress on Intellectual Property Rights for Specialized Information, Knowledge and New Technologies (Vienna, Austria) Aug. 21-25, 1995, 10 pages.	X
JLP	85	Bender, "Applications for Data Hiding," IBM Systems Journal, Vol. 39, No. 3-4, pp. 547-68, 2000.	
OKP	86	Gruhl et al., "Information Hiding to Foil the Casual Counterfeiter," Proc. 2d Information Hiding Workshop, LNCS vol. 1525, pp. 1-15 (April 15, 1998).	
	87		
	88		
	89		
	90		

Examiner  
Signature

Date  
Considered

1/14/03

\*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

<sup>1</sup> Unique citation designation number. <sup>2</sup> See attached Kinds of U.S. Patent Documents. <sup>3</sup> Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). <sup>4</sup> For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. <sup>5</sup> Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST. 16 if possible. <sup>6</sup> Applicant is to place a check mark here if English language Translation is attached.

Burden Hour Statement: This form is estimated to take 2.0 hours to complete. Time will vary depending upon the needs of the individual case. Any comments on the amount of time you are required to complete this form should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, Washington, DC 20231. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Assistant Commissioner for Patents, Washington, DC 20231.